COPYRIGHT 2006 ACS on STN CAPLUS ANSWER 1 OF 31

Radiation-curable ink jet ink, ink set, image-forming method and ink jet recording device CAPLUS <<LOGINID::20060824>> 2005:1001100 143:307825 ACCESSION NUMBER: DOCUMENT NUMBER:

Inc., Japan Konica Minolta Medical & Graphic, Makado, Satoru; Asatake, Atsushi PATENT ASSIGNEE(S): INVENTOR(S): SOURCE:

Jpn. Kokai Tokkyo Koho, 47 pp.

CODEN: JKXXAF Japanese Patent FAMILY ACC. NUM. COUNT: PATENT INFORMATION: DOCUMENT TYPE: LANGUAGE:

DATE		20040305	20040305	
APPLICATION NO.		JP 2004-61925	JP 2004-61925	
		20050915		MARPAT 143:307825
KIND DATE		A2		MARPAT
PATENT NO.		JP 2005248066	PRIORITY APPLN. INFO.:	OTHER SOURCE(S):

colorants, antioxidants, UV absorbers, and polymn initiators, where The ink contains polymerizable compds., the colorants are oil-soluble dyes. An ink MARPAT 143:30/825 AB

contained a cyan dye 3, an epoxy compound 20, an antioxidant 3, a UV absorber (2,4-di-tert-butyl-hydroquinone di-tert-Bu ether) 5, Adeka Optomer SP152

F475 0.02, and an oxetane compound the balance ΙI

118150-18-8

RL: TEM (Technical or engineered material use); USES (Uses)

(colorants; radiation-curable ink jet ink, ink set, image-forming method and ink jet recording device) CAPLUS 118150-18-8 Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-me (CA INDEX NAME) cyclohexadien-1-y1]- (9CI) thylphenyl]imino]-6-oxo-1,4-

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CAPLUS <<LOGINID::20060824>> 2005:429325

142:459639 ACCESSION NUMBER: DOCUMENT NUMBER:

INVENTOR(S):

SOURCE:

Cyan low fluorescence dye for coated optical microsphere bead random array DNA analysis Chari, Krishnan; Qiao, Tiecheng A.; Diebis Donald R.; Chen, Samuel

Eastman Kodak Company, USA PATENT ASSIGNEE(S):

U.S. Pat. Appl. Publ., 14 pp.

CODEN: USXXCO

English Patent DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: LANGUAGE:

PATENT INFORMATION:

The present invention provides a dye for coloring polystyrene microsphere beads cyan, i.e.--red light absorbing, with colorant materials that have the

property of very low fluorescence intensity such that the resultant colored microspheres do not substantially fluoresce when excited by visible light.

The present invention also provides a coating composition for making a protein microarray, the composition comprising a gelling agent or a precursor to a gelling

Cl, Br, I, (substituted)alkyl, H, agent and microspheres; the microspheres containing a dye [I; R1 alkylamino, arylamino, acyl, nitrile, alkoxy, aryl, R3 = H, C1, substituted amino, amido, alkoxy, heteroaryl, sulfone, sulfamoyl, sulfonamido, amido; R2, (substituted)alkyl].

851537-19-4P

RL: ARU (Analytical role, unclassified); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)

(CD-1; cyan low fluorescence dye for coated optical microsphere bead random array DNA anal.) 851537-19-4 CAPLUS

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-3-[{4-(diethylamino)phenyl]imino]-4-methyl-6-oxo-1,4-cyclohexadien-1-yl]- (9CI) (CA INDEX Butanamide,

NAME)

RL: ARU (Analytical role, unclassified); SPN (Synthetic preparation); ANST (Analytical study); PREP 851537-22-9P (Preparation)

(CD-2; cyan low fluorescence dye for coated optical microsphere bead random array DNA anal.) 851537-22-9 CAPLUS

LI

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]phenyl]imino] cyclohexadien-1-yl]- (9CI) (CA INDEX NAME) -4-methyl-6-oxo-1,4-

PAGE 1-B

| Et

CAPLUS COPYRIGHT 2006 ACS on STN ANSWER 3 OF 31

CAPLUS <<LOGINID::20060824>> 2005:235200 ACCESSION NUMBER:

142:325964 DOCUMENT NUMBER:

Water-thinned inks and ink-jet recording method using them for forming images with

excellent light, oxidative gas, and ink spread

resistance

Konica Minolta Holdings, Inc., Japan Asatake, Atsushi; Ninomiya, Hidetaka PATENT ASSIGNEE(S): INVENTOR(S):

Jpn. Kokai Tokkyo Koho, 48 pp.

CODEN: JKXXAF

Patent DOCUMENT TYPE:

SOURCE:

Japanese LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

JP 2003-298427 JP 2003-298427 20050317 1 1 A2 JP 2005068267

20030822 20030822

DATE

APPLICATION NO.

DATE.

KIND

PATENT NO.

MARPAT 142:325964 PRIORITY APPLN. INFO.: OTHER SOURCE(S):

The inks contain colored core-shell microparticles containing oil-soluble dyes and polymers, wherein

discoloration inhibitors (UV absorbers or antioxidants, preferably) are contained in the cores and the polymers may be selected from those bearing acetal, carbonate ester, or OH groups and vinyl polymers.

118150-18-8 ΙI

RL: TEM (Technical or engineered material use); USES (Uses)

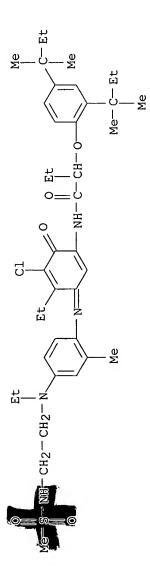
(dye; ink-jet dye inks containing colored core-shell microparticles for forming images with good light, oxidative gas, and ink spread resistance)

118150-18-8 CAPLUS RN

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-me thylphenyl]imino]-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)



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CAPLUS <<LOGINID::20060824>> 2003:10718 ACCESSION NUMBER:

138:214638 DOCUMENT NUMBER:

Evaluation of protocols for reproducible electrospray in-source collisionally induced

liquid dissociation on various

chromatography/mass spectrometry instruments and the development of spectral libraries Bristow, Anthony W. T.; Nichols, William F.; Webb, Kenneth S.; Conway, Brian AUTHOR(S)

Laboratory of the Government Chemist (LGC Limited), Teddington, TW11 0LY, UK Rapid Communications in Mass Spectrometry (2002), 16(24), 2374-2386 CODEN: RCMSEF; ISSN: 0951-4198 CORPORATE SOURCE

SOURCE:

John Wiley & Sons Ltd. PUBLISHER:

Journal DOCUMENT TYPE:

English LANGUAGE:

Mass spectral libraries provide a tool for identifying unknown compds. using both mol. weight and Mass spectrometers with fragmentation information.

electrospray ionization (ESI) and atmospheric chemical ionization (ApCI) sources have the capability to produce data of this type using in-source collisionally

Due to the variation in induced dissociation (CID), and in-source CID libraries can be created. electrospray source design from different instrument

manufacturers, the production of reproducible in-source CID spectra that can be used in libraries for all instrument types is not a trivial task. To date,

the evaluation of the production of in-source CID libraries has tended to focus on similar instruments from The studies have also tended to

This report describes the findings focus on specific compound classes, with a limited mol. weight range. from the study of protocols for the creation of mass

spectral libraries using ESI in-source CID on six instruments from four different manufacturers.

overall goal was to create a spectral library for

The library could then be applied across all manufacturers' electrospray instruments. Two different exptl. protocols the identification of unknowns.

A diverse range of compds. (pharmaceutical, photog., The 1st used a tuning compound to establish standard ESI source conditions, with fixed als. The 2nd involved the attenuation of the [M + H]+ ion to a known degree. fragmentation potentials. were attempted.

reproducibility of the spectra on the six instruments. Both protocols produced spectra on the various pesticides) was tested to establish the

In other examples, the spectra differed not only in their relative ion abundances, but also in terms of the instruments that in many cases were very similar.

regarding the effect of ion source design are also reported. The degree of spectral reproducibility was calculated off-line by comparing the five most Important observations spectral content.

abundant ions (20% for each ion that matches) from each spectrum on each instrument. This approach was adopted, as the authors do not possess a software

package that met the authors' requirements for spectral comparison. Match factors (% fit) were calculated by comparing each spectrum against the spectra

recorded for the same compound and then for all other compds., on each instrument. The % fit values derived by the off-line approach gave a clear view of

the spectral reproducibility from instrument to instrument and also discriminated the spectra of the various of this approach was tested using a blind trial in which several compds. were presented as unknowns, their The applicability compds. from each other.

in-source CID spectra recorded and the five-ion approach used for identification.

IT 118150-18-8

RL: ARU (Analytical role, unclassified); ANST (Analytical study)

test compound; evaluation of protocols for reproducible electrospray in-source collisionally induced

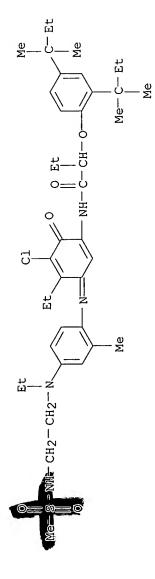
dissociation on various liquid chromatog./mass spectrometry instruments and the development of spectral libraries)

118150-18-8 CAPLUS

CN Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylsulfonyl)thylphenyl]imino]-6-oxo-1,4

cyclohexadien-1-y1]- (9CI) (CA INDEX NAME)



THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE 12

IN THE RE FORMAT

REFERENCE COUNT:

CAPLUS <<LOGINID::20060824>> CAPLUS COPYRIGHT 2006 ACS on STN 2002:750912 CAPLUS << LOGINID. L7 ANSWER 5 OF 31

137:270210 ACCESSION NUMBER: DOCUMENT NUMBER:

Kokeguchi, Noriyuki; Shimizu, Hiroshi; Hiyama, Kunimasa; Kitani, Ryuji Information display

Konica Co., Japan Jpn. Kokai Tokkyo Koho, 11 pp. CODEN: JKXXAF INVENTOR(S): PATENT ASSIGNEE(S):

Japanese Patent DOCUMENT TYPE: LANGUAGE:

SOURCE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. DATE KIND PATENT NO.

JP 2001-86946 JP 2001-86946 MARPAT 137:270210 20021003 A2 PRIORITY APPLN. INFO.: JP 2002287177 OTHER SOURCE(S):

20010326 20010326 ------DATE

> $N = R^7$ R_{5} R1R2N-

R4

The display comprises I (R1-7 = H, substituent) and [CH2 = CH-S(0)2-]n-A (A = ester, OH, amide. C1-6)alkylene; n = 2, 3), where the electrification

particle is moved by elec. field for recording information in a partitioned box.

111364-54-6 ΙI

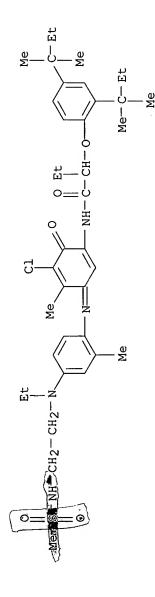
RL: DEV (Device component use); USES (Uses)

(information display) 111364-54-6 CAPLUS

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphen]yl]imino]-4-methyl-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-y1]- (9CI)



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CAPLUS <<LOGINID::20060824>> 2002:691409 ACCESSION NUMBER:

DOCUMENT NUMBER:

Ink-jet ink composition containing oil-soluble dye and amine compounds for high

photographic image quality papers

INVENTOR(S):

TITLE:

Yamada, Masato; Yabuki, Yoshiharu PATENT ASSIGNEE(S):

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 32 pp.

CODEN: JKXXAF

Japanese Patent DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO.
KIND
PATENT NO.

OTHER SOURCE(S)

Title ink contains aqueous dye dispersion manufactured by dispersing an oil-soluble dye, an amine compound, MARPAT 137:234156

Rl is alkyl, aryl, or and high b.p. organic solvents in aqueous medium. The amine compound is a compound represented by R1-[NR4]n-X-NR2R3, wherein X is CO, CS, or SO2;

heterocyclic group; R2, R3, and R4 independently represent H, alkyl, or aryl group; n = 0 or 1. Thus, an ink composition was formulated by admixing an oil-soluble dye 5.00, high b.p. organic solvents 10, additive 0.625, a sulfonamide compound 20.0 g/L, and other ingredients in water. The obtained odorless ink exh

The obtained odorless ink exhibits excellent printing property, handling property,

dryability, discharge stability, color reproducibility, water resistance, and light fastness.

118150-18-8

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (oil-soluble dye; formulation of ink-jet ink composition containing oil-soluble dye for high photog

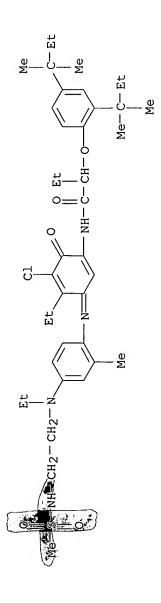
CAPLUS image quality papers 118150-18-8

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m IJ}$

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-me thylphenyl]imino]-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-y1]- (9CI)



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CAPLUS << LOGINID::20060824>> 2002:423011 ACCESSION NUMBER:

DOCUMENT NUMBER:

INVENTOR(S):

SOURCE:

Ink-jet inks, their manufacture, and printing process using the same Yamanouchi, Junichi; Ishizuka, Takahiro; Yabuki, Yoshiharu Fuji Photo Film Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 80 pp. PATENT ASSIGNEE(S):

CODEN: JKXXAF

DOCUMENT TYPE:

Patent LANGUAGE

Japanese

7 FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	1 1 1			
JP 2002161225	A2	20020604	JP 2001-230507	20010730
US 2002143079	A1	20021003	US 2001-922842	20010807
US 6800673	B2	20041005		
RIORITY APPLN. INFO.:			JP 2000-238817 F	20000807
			JP 2001-230507 F	20010730
THER SOURCE(S):	MARPAT	MARPAT 137:13284		
•				

OTO

AVAILABLE VIA OFFLINE PRINT STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -

The ink-jet inks are prepared by mixing (A) emulsions of water-insol. ionic group-containing polymers with (B) water-based dispersions of colorant fine

>150° and oil-soluble dyes. particles containing hydrophobic high-b.p. organic solvents with b.p. surface of dispersoids of B may be coated with

The oil-soluble dyes may be shown as I (X = residue of color photog. coupler; A = NR4R5,SR52, R4, R5 = H, aliphatic, aromatic, heterocyclic; B1

OH;

:CR6, :N; B2 = CR7:, :N; R2, R3, R6, R7 = H, halo, aliphatic, aromatic, heterocyclic, CN, OR51, CO2R53, OCOR54, NR55R56, CONR57R58, SO2R59, SO2NR60R61,

NR62CONR63R64, NR65CO2R66, COR67, NR68COR69, NR70SO2R71; R51-R71 = H, aliphatic, aromatic; R2 and R3, R3 and 5-membered R4 and R5, R5 and R6, R6 and R7 may be bonded

The oil-soluble dyes may be azo dyes shown as II [A = residue of to each other and form ring). The oil-solubl ring diazo component ANH2; as for Bl and B2, B1 =

:CR1 and B2 = CR2:, or one is N and the other is :CR1 or CR2:; R5, R6 = H, aliphatic, aromatic, CO or SO2 which is bonded to alkoxy, heterocyclic, acyl,

aryloxy, or NH2 (these groups may be further substituted); G, R1, R2 = H, halo, aliphatic, aromatic, heterocyclic, CN, CO or OCO which is bonded to OH, NH2,

alkoxy, or aryloxy, acyl, OH, alkoxy, aryloxy, siloxy, acyloxy, heterocyclic oxy, amino which includes NHPh, acylamino, NHCONH2 or NHSO2NH2 which may be substituted with alkoxy or aryloxy, NO2, alkyl- or arylthio, SO2 which is bonded to alkyl, aryl, NH2, or OH

further substituted); R1 and R5, or R5 and R6 may be linked to each other and form 5- or 6-membered ring]. heterocyclic thio (these groups may be

= alkyl, cycloalkyl, alkenyl, aralkyl, aryl, heterocyclic as III [X1-X4 = SOZ1, SOZ21, or SOZN21R22; Z1 The oil-soluble dyes may be phthalocyanines shown

(these groups may be substituted); R21, R22 = H, any group given for Z1; R21 \neq R22 = H; Y1-Y4 = monovalent substituent; al-a4, bl-b4 = 0-4 integer; a total of al-a4 \geq 2]. The inks produce

vivid images regardless of type of papers.

118150-18-8 LI RL: TEM (Technical or engineered material use); USES (Uses)

(water-based ink-jet inks prepared by mixing water-insol. ionic group-containing polymers with dispersions containing organic solvents and oil-soluble dyes)

CAPLUS 118150-18-8

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylsulfonyl)thylphenyl]imino]-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)

$$\begin{bmatrix} C_1 & C_1 & C_1 & C_2 & C_1 & C_2 & C_2 & C_3 & C_4 & C_4 & C_5 & C_$$

2002:305895 CAPLUS << LOGINID::20060824>> COPYRIGHT 2006 ACS on STN CAPLUS 31 ACCESSION NUMBER: ANSWER 8 OF

DOCUMENT NUMBER:

INVENTOR(S):

SOURCE:

Water-thinned ink compositions for jet printing

Yamanouchi, Junichi; Yamada, Masato; Yabuki, Yoshiharu Fuji Photo Film Co., Ltd., Japan PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 68 pp.

CODEN: JKXXAF

Patent DOCUMENT TYPE:

Japanese FAMILY ACC. NUM. COUNT: LANGUAGE:

PATENT INFORMATION:

PATENT NO.		DATE	APPLICATION NO.	DATE
JP 2002121414	A2	20020423	JP 2001-211417	20010711
US 2002107301	A1	20020808	US 2001-905859	20010717
PRIORITY APPLN. INFO.:			JP 2000-216511 A	20000717

MARPAT 136:327137 OTHER SOURCE(S):

AB The ink compns. contain colored fine particle dispersions containing hydrophobic organic solvents (b.p. >150°) and oil-soluble dyes, and polymer

20010711

Ø

JP 2001-211417

Thus, a dispersion prepared from an oil-soluble dye, Na dioctylsulfosuccinate, (MeC6H4O)3PO, (Me3CCH2CHMeCH20)3PO, and UV absorbents was mixed with

diethylene glycol, glycerin, Surfynol 465, urea, H2O, KOH, and acrylic acid-butadiene-styrene copolymer latexes to give a light magenta ink showing good

printability, dryability, lightfastness, and water resistance.

118150-18-8

II

RL: TEM (Technical or engineered material use); USES (Uses)

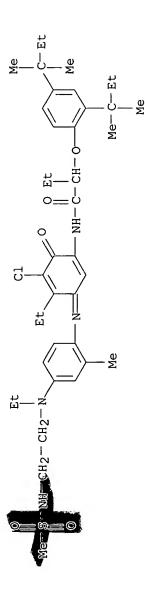
(water-thinned jet printing inks with good dryability, lightfastness, and water resistance)

118150-18-8

Butanamide, C Z

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylloro-4-ethyl-3-[[4-[ethyl]amino]ethyl]amino]ethyl]thylphenyl]imino]-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-y1] - (9CI)



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CAPLUS <<LOGINID::20060824>> 2002:129246 ACCESSION NUMBER:

136:169122 DOCUMENT NUMBER:

Colorant aqueous emulsions with good dispersibility, their water- and light-resistant TITLE

and printing method using jet printing inks,

them

Ishizuka, Takahiro PATENT ASSIGNEE(S) INVENTOR(S):

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 33 pp.

CODEN: JKXXAF

Patent DOCUMENT TYPE:

SOURCE:

Japanese FAMILY ACC. NUM. COUNT: LANGUAGE

PATENT INFORMATION:

DATE APPLICATION NO. DATE KIND PATENT NO.

20020219 A2 PRIORITY APPLN. INFO.: JP 2002053766 OTHER SOURCE(S):

JP 2000-241638 JP 2000-241638 MARPAT 136:169122

20000809

The emulsions comprise oil-soluble dyes and vinyl polymers having functional groups to form colorants by ation coupling with aromatic primary amines. Thus, an AB

oxidation coupling with aromatic primary amines. Thus, an aqueous emulsion containing Bu methacrylate-2-carboxyethyl acrylate-acrylamide chloropyrazolotriazole

derivative copolymer Na salt and an azomethine dye (I) showed

particle size 92 nm and stable dispersion.

118150-18-8 II

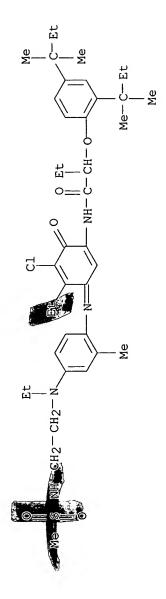
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (dye; colorant aqueous emulsions for water-, light-, and clogging-resistant jet printing inks using vinyl

polymer containing coupling groups) RN 118150-18-8 CAPLUS

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphenyl]imino]-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)



COPYRIGHT 2006 ACS on STN CAPLUS 31 ANSWER 10 OF ACCESSION NUMBER:

CAPLUS <<LOGINID::20060824>> 2002:113898

136:169115

Inks containing oil-soluble dyes and unsaturated compounds, and ink-jet printing using

DOCUMENT NUMBER: TITLE:

them

INVENTOR(S):
PATENT ASSIGNEE(S):

Naruse, Hideaki; Omatsu, Tadashi Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 42 pp. CODEN: JKXXAF SOURCE:

Patent DOCUMENT TYPE:

Japanese FAMILY ACC. NUM. COUNT: LANGUAGE:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002047437	A2	20020212	JP 2000-309683	20001010

20010522 20000523 A A US 2001-861635 JP 2000-151105 JP 2000-309683 20020822 20040406 A1 B2 PRIORITY APPLN. INFO.: US 2002112641 US 6716277

MARPAT 136:169115 OTHER SOURCE(S):

AB The inks contain (a) oil-soluble dyes dissolved into high-boiling organic solvents and dispersed into aqueous media and (b) compds. having ≥1 C-C unsatd.

20001010

was manufactured using a dye emulsion containing phosphate, tris(2,4,4-trimethylpentyl) phosphate, and pyrazolotriazole dye, dioctyl sulfosuccinate, tritolyl phosphate, and Thus, a light magenta ink The inks provide water-resistant high-quality images. bond other than Ph group.

118150-18-8 UV absorbers.

RL: TEM (Technical or engineered material use); USES (Uses)

(ink-jet printing inks containing oil-soluble dyes, unsatd. compds., and high-boiling solvents) 118150-18-8 CAPLUS

RN

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-me thylphenyl]imino]-6-oxo-1,4

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)

LUS COPYRIGHT 2006 ACS on STN 2002:113243 CAPLUS <<LOGINID::20060824>> CAPLUS 31 ANSWER 11 OF ACCESSION NUMBER:

136:169113 DOCUMENT NUMBER:

Color microparticle dispersions, ink-jet recording inks, and recording process therewith INVENTOR(S):

Ishizuka, Takahiro; Yamanouchi, Junichi Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 35 pp. PATENT ASSIGNEE(S): SOURCE

CODEN: JKXXAF

Patent DOCUMENT TYPE:

LANGUAGE

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

		20000802		
AFFERCALION NO:	JP 2000-234305	JP 2000-234305		
	20020212		MARPAT 136:169113	
מונים מיוויו	 A2		MARPAT	
relent no.	JP 2002047440	PRIORITY APPLN. INFO.:	OTHER SOURCE(S):	

AB The microparticles contain oil-soluble dyes and vinyl polymers prepared by polymerization of H2C:CR11L1(X1)q(L2)r(X2)sOP(O)(OR22)OR21 [I; R11 = H, C1-4 alkyl, C1; L1

= 0, CO2, OCO, CONR12, (un) substituted phenylene; X1 = CH2, CHR13, CR13R14, CH2CH20, CH2CHR130, CHR13CH20, CONR12, NR12CO, NR12CO2, NR12CONR15; X2 = CH2, CH2CHR13, CHR13CH2, cycloalkylene; L2 = 0, C0, C02, OCO, (un) substituted (un) substituted arylene,

cycloalkylene; $q \ge 1$; r = 0-1; s = 0-18; R12, R15 = H, (un)substituted alkyl, (un)substituted aryl; R13, R21, R22 = (un)substituted alkyl, (un) substituted arylene, (un) substituted R14,

Thus, adding NaOH to a mixture of Me2CHOH 4, tert-BuOH 6, a 50:40:10 I-Bu (un) substituted aryl].

the mixture, and evaporating gave color microparticle dispersion having particle size 32 nm and good dispersibility.

118150-18-8

RL: TEM (Technical or engineered material use); USES (Uses)

(color microparticle dispersions with good dispersibility for ink-jet inks)

118150-18-8 CAPLUS

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-me thylphenyl]imino]-6-oxo-1,4-Butanamide,

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)

LUS COPYRIGHT 2006 ACS on STN 2001:900445 CAPLUS <<LOGINID::20060824>> CAPLUS 31 ANSWER 12 OF ACCESSION NUMBER:

136:21064 DOCUMENT NUMBER:

Ink composition and ink jet recording technique

Naruse, Hideaki

INVENTOR(S):

SOURCE

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 34 pp. PATENT ASSIGNEE(S):

CODEN: JKXXAF

Japanese Patent DOCUMENT TYPE:

PATENT INFORMATION:

FAMILY ACC. NUM. COUNT:

LANGUAGE:

20001020 DATE APPLICATION NO. JP 2000-320683 20011214 DATE KIND A2 JP 2001342387 PATENT NO.

JP 2000-95681

20000330

Ø

MARPAT 136:21064

The water dispersion ink with good picture quality and waterproofing comprises R1R2R3N, R4R5S:(0)n, or R6R7R80(0)m, which is dissolved in aqueous emulsions AB

containing organic solvents having b.p. ≥150° and a dye, wherein R2-R8 are aliphatic groups, etc., m, n=1 or 2. Thus, a light magenta ink set from

dye I was mixed with (CH3)2N(CH3)N(CH2)4OC6H3(t-C5H11)2 to give an ink show good printing, drying and water-resistance properties.

118150-18-8

RL: TEM (Technical or engineered material use); USES (Uses) (ink composition for ink jet recording)

CAPLUS 118150-18-8

Butanamide, CN CN

2-[2,4-bis(1,1-dimethy]propyl) phenoxy] -N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphenyl]imino]-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)

$$Me-S-NH-CH_2-CH_2-NH$$

Ink jet recording composition containing cycloamine compound LUS COPYRIGHT 2006 ACS on STN 2001:900443 CAPLUS <<LOGINID::20060824>> Naruse, Hideaki; Seto, Nobuo Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 33 pp. CODEN: JKXXAF 136:21063 Japanese Patent CAPLUS FAMILY ACC. NUM. COUNT: PATENT INFORMATION: 31 PATENT ASSIGNEE (S): ANSWER 13 OF ACCESSION NUMBER: DOCUMENT NUMBER: DOCUMENT TYPE: INVENTOR(S): LANGUAGE: SOURCE:

20001010 20000330 ----DATE Z, APPLICATION NO. JP 2000-309682 JP 2000-95490 MARPAT 136:21063 20011214 DATE KIND A2 PRIORITY APPLN. INFO.: JP 2001342386 OTHER SOURCE(S): PATENT NO.

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT

Thus an ink made from dye II and compound III showed good printing property, and water Title ink composition having good picture quality, water resistance and image fixation comprises a dye dissolved in a high-b.p. solvent and dispersed in water, and a compound I. resistance.

118150-18-8
RL: TEM (Technical or engineered material use); USES (Uses) (ink jet recording composition containing cycloamine compound)

CAPLUS 118150-18-8

Butanamide

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-me thylphenyl]imino]-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-y1]- (9CI)

$$[e-S-NH-CH_2-CH_2-N]$$

$$[e-S-NH-CH_2-N]$$

$$[h-F]$$

$$[h-$$

2001:900441 CAPLUS << LOGINID:: 20060824>> COPYRIGHT 2006 ACS on STN CAPLUS 31 ANSWER 14 OF ACCESSION NUMBER:

136:21062 DOCUMENT NUMBER:

Ink composition for ink jet recording Yamada, Masato; Mikoshiba, Takashi

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 39 pp.

PATENT ASSIGNEE(S):

SOURCE:

INVENTOR(S):

CODEN: JKXXAF

Japanese

Patent

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

20000330 20000822 DATE Ø APPLICATION NO JP 2000-251174 JP 2000-95680 20011214 DATE KIND A2 PRIORITY APPLN. INFO.: JP 2001342385 PATENT NO.

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT

Title ink having good printing property, discharge stability, water and light resistance comprises a dye which is dissolved in an organic solvent (b.p. 2150°) and emulsified, and a substituted benzene R1XR2R3R4R5R6C wherein R1-R6 are H or organic

substituents, and X is O, S, or NR. Thus, an ink made from dye I and claimed compound II showed good printing property, drying, and water resistance. 118150-18-8 ΙI

RL: TEM (Technical or engineered material use); USES (Uses)

(ink composition for ink jet recording)

CAPLUS 118150-18-8

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-me thylphenyl]imino]-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)

$$Me-S-NH-CH_2-CH_2-N$$

$$Me-S-NH-CH_2-CH_2-N$$

$$Me-S-NH-CH_2-CH_2-N$$

$$Me-C-Et$$

$$Me-C-Et$$

$$Me$$

COPYRIGHT 2006 ACS on STN CAPLUS 31 ANSWER 15 OF

2001:874458 CAPLUS << LOGINID::20060824>> ACCESSION NUMBER:

136:21058 DOCUMENT NUMBER:

Colored minute particle dispersions, aqueous ink-jet inks and printing method therewith

Yamanouchi, Junichi; Yamada, Masato PATENT ASSIGNEE(S):

INVENTOR(S):

SOURCE:

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 56 pp.

CODEN: JKXXAF

Patent DOCUMENT TYPE:

Japanese FAMILY ACC. NUM. COUNT: LANGUAGE:

PATENT INFORMATION:

20000705 20010308 20000321 DATE Ø, APPLICATION NO. JP 2000-203856 US 2001-800776 JP 2000-78518 20011204 20031204 20040330 DATE KIND A2 A1 B2 PRIORITY APPLN. INFO.: US 2003222959 US 6713528 JP 2001335734 PATENT NO.

MARPAT 136:21058

useful to prepare storage-stable aqueous ink-jet inks giving good prints on any paper substrates, are prepared by dispersing colored minute Title dispersions,

Н

particles consisting of nonionic oil-sol polymers, hydrophilic organic solvents with b.p. of 2150°, and Using oil-soluble dyes in aqueous media.

poly(Bu methacrylate), tritolyl phosphate, tri(2,4,4-trimethylpentyl) phosphate, and I to prepare dispersion, which was mixed with additives and water to

The yellow, black, and (light)cyan inks were prepared similarly using different dyes to form an ink set showing stable form a (light) magenta ink.

printability initially and after 3 days at 60° and resulting light- and water- and rubbing-resistant prints on various paper sheets.

118150-18-8

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(oil-soluble dye- and nonionic polymer- and hydrophobic high b.p. organic solvent-based dispersions for

CAPLUS aqueous ink-jet inks) 118150-18-8 RN

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylsulfonyl)thylphenyl]imino]-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)

$$Me^{-S-NH-CH_2-CH_2-N} \longrightarrow Et \longrightarrow C1 \qquad 0 \quad 0 \quad Et \qquad C-Et \qquad Me^{-C-Et} \longrightarrow NH-C-CH-O \longrightarrow Me^{-C-Et} \longrightarrow M$$

CAPLUS <<LOGINID::20060824>> COPYRIGHT 2006 ACS on STN 2001:798763 CAPLUS 31 ANSWER 16 OF ACCESSION NUMBER:

DOCUMENT NUMBER:

135:332619

Ink-jet ink sets containing ionic polymers and oil-soluble dyes
Yamanouchi, Junichi; Yamada, Makoto

Japan PATENT ASSIGNEE(S):

INVENTOR(S):

SOURCE:

U.S. Pat. Appl. Publ., 44 pp. CODEN: USXXCO

Patent DOCUMENT TYPE:

English LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	KIND DATE	APPLICATION NO.		DATE
+ + + + + + + + + + + + + + + + + + + +	1 1 1	1 1 1 1 1 1			
US 2001036979	A1	20011101	US 2001-800649		20010308
JP 2002080772	A2	20020319	JP 2001-62886		20010307
PRIORITY APPLN. INFO.:			JP 2000-78531 P	₫	20000321
			JP 2000-203857	₫	A 20000705

MARPAT 135:332619 OTHER SOURCE(S):

An ink-jet ink which is excellent in handling properties, odor, safety, and dispersion stability of coloring particulate, and which shows no

paper-dependency, manifests excellent color developing property and hue when printed on any type of paper, and has various excellent properties.

ink-jet ink contains a coloring composition containing a coloring particulate containing an ionic-group-containing polymer, an oil-soluble dye, and a hydrophobic

high-boiling-point organic solvent having a b.p. of at least 150°, the coloring particulate being dispersed The content of

the hydrophobic high-boiling-point organic solvent in the coloring composition is 25-95% with respect to total amount of the ionic-group-containing polymer, the oil-soluble dye, and the hydrophobic high-boiling-point organic solvent.

IT 118150-18-8

RL: TEM (Technical or engineered material use); USES (Uses)

(ink-jet ink sets containing ionic polymers and oil-soluble dyes) CAPLUS

118150-18-8

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylsulfonyl)thylphenyl]imino]-6-oxo-1,4

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)

COPYRIGHT 2006 ACS on STN 535542 CAPLUS <<LOGINID::20060824>> CAPLUS 31 ANSWER 17 OF

1999:535542 ACCESSION NUMBER:

DOCUMENT NUMBER:

The effect of polymeric addenda on dark fading stability of cyan indoaniline dye 131:305050

CORPORATE SOURCE: AUTHOR(S):

IS&T's PICS Conference, Annual Conference [of the Society for Imaging Science Takahashi, Osamu; Yoneyama, Hiroyuki; Aoki, Kozo; Furuya, Kazuhiko Ashigara Research Laboratories, Fuji Photo Film Co., LTD, Kanagawa, 250-0193, SOURCE:

Portland, Oreg., May 17-20, 1998 (1998), 329-331. Society 1 Technology], 51st,

Society for Imaging Science and Technology: Springfield, Va. CODEN: 67ZGAU

Conference DOCUMENT TYPE:

LANGUAGE:

English

An investigation on the heat-decomposition mechanism of indoaniline dyes suggested that preventing the reaction between dyes or between dyes and heat-decomposition

This has led to products is important to improve dark fading stability of cyan indoaniline dyes. development of the polymer-protected coupler (PPC)

This paper describes the effect of polymer addenda technol. incorporated in all Fujicolor Super FA papers. on indoaniline dyes in terms of an assumed

mechanism for heat-decomposition of cyan indoaniline dyes and phys. properties of polymers. II

(dark heat stability of photog. cyan indoaniline dye increased by addition pf polymer) RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process) 111364-54-6

111364-54-6 CAPLUS RN

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphenyl]imino]-4-methyl-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN ന

THE RE FORMAT

REFERENCE COUNT:

COPYRIGHT 2006 ACS on STN 535531 CAPLUS <<LOGINID::20060824>> CAPLUS 31 ANSWER 18 OF

1999:535531 ACCESSION NUMBER:

131:293172 DOCUMENT NUMBER:

Berry, R. J.; Douglas, P.; Garley, M. S.; Clarke, D.; Winscom, C. J. Chemistry Department, University of Wales Swansea, Singleton Park Swansea, SA2 8PP, IS&T's PICS Conference, Annual Conference [of the Society for Imaging Science and Photophysics and photochemistry of azomethine dyes CORPORATE SOURCE: AUTHOR(S): TITLE:

UK

SOURCE:

Society for Imaging Science and Technology: Springfield, Va. Technology], 51st, Portland, Oreg., May 17-20, 1998 (1998), 282-286. Society CODEN: 67ZGAU

Conference

DOCUMENT TYPE:

English LANGUAGE:

Photochem. and photophysics of azomethine dyes are characterized by: very broad and intense absorption

bands, (band width \approx 100 nm and ϵ \approx 2-5 + 104 mol-1dm3cm-1); high photostabilities, (Φ \approx 10-6 to 10-7); very low room temperature fluorescence quantum yields, (Φ fl

pprox 10-4 to 10-5) which are enhanced at 77 K to Φ fl pprox 0.001-1.0 depending upon the dye type; low energy

94 kJmol-1) (cyan dyes) to 200 kJmol-1 (yellow dyes); short triplet lifetimes; τλ ≤ 10 ns; syn-anti isomerization about the

azomethine bond; and high rate consts. for phys. quenching of singlet oxygen, (kg $\approx 106-109~\text{mol-ldm}3s-1$) For these cyan dyes Φ fl \leq 5 +10-5 in room indoaniline cyan dyes confirm this general behavior. Results from studies of two ballasted

temperature di-Bu phthalate, triplet energies

are 87 \pm 4 and 94 \pm 4 kJmol-1, and singlet oxygen quenching rate consts. are 6.6 (\pm 0.1) + 109 mol-ldm3s-1. 118150-18-8 II

RL: PRP (Properties)

(photophysics and photochem. of photog. cyan azomethine dyes)

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-me thylphenyl]imino]-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)

$$Me^{-S} = NH - CH_2 - CH_2 - N$$

$$Me^{-S} = NH - CH_2 - CH_2 - N$$

$$Me^{-S} = NH - CH_2 - CH_2 - N$$

$$Me^{-C} = E$$

$$Me^{-C} = E$$

$$Me^{-C} = E$$

$$Me^{-C} = E$$

THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE 26

CAPLUS 31 ANSWER 19 OF

REFERENCE COUNT: IN THE RE FORMAT LUS COPYRIGHT 2006 ACS on STN 1999:502930 CAPLUS <<LOGINID::20060824>> ACCESSION NUMBER:

Ink-jet inks providing print with improved rub resistance 131:145866 DOCUMENT NUMBER:

Helling, Guenter; Herrmann, Stefan INVENTOR(S):

Agfa-Gevaert A.-G., Germany Ger. Offen., 20 pp. PATENT ASSIGNEE(S):

CODEN: GWXXBX

Serman Patent DOCUMENT TYPE:

LANGUAGE:

SOURCE:

TITLE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	1 1 1	1 1 1 1 1		
DE 19804123	A1	19990805	DE 1998-19804123	19980203
US 6313196	B1	20011106	US 1999-237822	19990127
JP 11286637	A2	19991019	JP 1999-25130	19990202
PRIORITY APPLN. INFO.:			DE 1998-19804123 A	19980203

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Ø AB Ink-jet inks with the title property are based on dispersions containing ionic polymers loaded with dyes. typical dispersion was manufactured by heating 72.7 g

al dispersion was manufactured by heating 72.7 g adipic acid-hexanediol-HDI-neopentyl glycol-Na 2-aminoethyl- β -aminopropionate copolymer in 550 g Me2CO

min at 50° with 5.45 g dye I in 80 g
Me2CO, adding 220 g water, and removing the Me2CO by vacuum distillation
IT 118150-18-8DP, reaction products with ionomers
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (ink-jet inks containing ionomer-dye adducts for providing print with improved rub resistance) 150-18-8 CAPLUS

118150-18-8

Butanamide, C Z

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-me thylphenyl]imino]-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)

COPYRIGHT 2006 ACS on STN CAPLUS 31 ANSWER 20 OF

1999:28479 CAPLUS <<LOGINID::20060824>> ACCESSION NUMBER:

130:229838 DOCUMENT NUMBER:

singlet state properties and singlet oxygen quenching rate constants Triplet energies,

and quantum yields for two cyan azomethine dyes AUTHOR(S):

Dave; Berry, Richard J.; Douglas, Peter; Garley, Michael S.; Jolly, Tony; Clarke, Moglestue, Helen; Walker, Helen; Winscom,

Christopher

8PP, Department of Chemistry, University of Wales Swansea, Singleton Park, Swansea, SA2

CORPORATE SOURCE:

SOURCE:

Journal of Photochemistry and Photobiology, A: Chemistry (1999), 120(1), 29-36

CODEN: JPPCEJ; ISSN: 1010-6030

Elsevier Science S.A. PUBLISHER:

Journal DOCUMENT TYPE:

English LANGUAGE:

The triplet energies of two photog. cyan azomethine dyes with absorption maxima around 640 nm have been studied using time-resolved energy transfer

methods and found to be 94 (± 4) and 87 (± 4) kJ-mol-1. The rate consts. for the quenching of singlet mol oxygen by the two dyes in ethanol are 6.5

of Quantum yields (± 0.5) + 109 and 6.7 (± 0.5) + 109 mol-1-dm3-s-1, close to the diffusion-controlled limit. singlet oxygen production in

Fluorescence spectra of the dyes in di-Bu air-equilibrated ethanol are 3.3 (± 1.0) + 10-5 and $\le 1 + 10-5$. phthalate at relatively

high concentration have been obtained leading to ests. of $6.9 \ (\pm 1.2) + 10-5$ and $1.8 \ (\pm 0.5) + 10-5$ for the guantum yields of fluorescence.

Excited singlet state radiative and non-radiative rate consts., calculated using the Strickler Berg method,

for the two dyes are: 9.9 (± 0.4) + 107 and 1.5 (± 0.2) + 1012 s-1; 8.7 (± 0.7) + 107 and 5.0 (± 2.0) + 1012 s-1

118150-18-8 II

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process) (triplet and singlet state energies and singlet oxygen quenching rate consts. for two photog. cyan

azomethine dyes)

CAPLUS 118150-18-8

Butanamide, S

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-me thylphenyl]imino]- $6-oxo^{-1}, 4^{-}$

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)

$$Me^{-S} = NH - CH_2 - CH_2 - - CH_2$$

THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE 21

IN THE RE FORMAT REFERENCE COUNT:

COPYRIGHT 2006 ACS on STN: 599882 CAPLUS << LOGINID:: 20060824>> 1998:599882 CAPLUS 31 ANSWER 21 OF ACCESSION NUMBER:

129:267949 DOCUMENT NUMBER:

INVENTOR(S):

SOURCE

Thermal printing material providing multicolor image

Mitsubishi Paper Mills, Ltd., Japan Arai, Takao; Ito, Akira PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 23 pp CODEN: JKXXAF

Patent DOCUMENT TYPE:

Japanese FAMILY ACC. NUM. COUNT: LANGUAGE:

PATENT INFORMATION:

DATE	
APPLICATION NO.	* * - *
DATE	
KIND	
PATENT NO.	1 1 1 1 1 1 1 1 1 1 1

19970305 19970305 JP 1997-50482 JP 1997-50482 19980914 A2 PRIORITY APPLN. INFO.: JP 10244763

>1 layer containing a free radical-generating agent radical and a dye which is decolored by the free radical and 21 layer containing a diazo compound and The title material comprises a support with coatings of which absorbs light to generate a free

compound to form a dye. The later layer may contain, in place of the above 2 components, (1) an coupling component which combines to the diazo

developer, (2) a colored product of the leuco dye and the color developer and a decoloring agent which electron-donating leuco dye and an electron-accepting color

a diarylmethane, triarylmethane, polymethine, azomethine, indoaniline, or quinone dye and decolors the colored product by heat-decoloring

ø

nucleophilic reaction or reduction that occurs upon heating. The material provides multicolor images with decoloring agent which decolors the dye by

high color reproducibility, storage stability, and sharpness

118150-18-8 ΙŢ

(dye; thermal printing material providing multicolor image) 118150-18-8 CAPLUS RL: TEM (Technical or engineered material use); USES (Uses)

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphenyl]imino]-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)

$$\begin{array}{c} \begin{array}{c} 0 \\ \parallel \\ \parallel \\ 0 \end{array} \\ \begin{array}{c} \text{Et} \\ \text{O} \end{array} \\ \begin{array}{c} \text{C1} \\ \text{O} \end{array} \\ \begin{array}{c} \text{O} \\ \text{O} \end{array} \\ \begin{array}{c} \text{Et} \\ \text{O} \end{array} \\ \begin{array}{c} \text{C} \\ \text{Et} \\ \text{Me} \end{array} \\ \begin{array}{c} \text{C} \\ \text{C} \end{array} \\ \begin{array}{c} \text{Et} \\ \text{Et} \\ \text{O} \end{array} \\ \begin{array}{c} \text{C} \\ \text{Et} \\ \text{Me} \end{array} \\ \begin{array}{c} \text{C} \\ \text{Et} \\ \text{Me} \end{array} \\ \begin{array}{c} \text{C} \\ \text{Et} \\ \text{Me} \end{array}$$

1997:602510 CAPLUS <<LOGINID::20060824>> COPYRIGHT 2006 ACS on STN CAPLUS 31 ANSWER 22 OF ACCESSION NUMBER:

127:301317 DOCUMENT NUMBER: TITLE:

Heat development photosensitive material with improved lightfastness Harada, Toru; Fujiwara, Itsuo INVENTOR(S):

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 28 pp. PATENT ASSIGNEE(S): SOURCE:

Patent DOCUMENT TYPE:

CODEN: JKXXAF

Japanese

FAMILY ACC. NUM. COUNT: LANGUAGE:

PATENT INFORMATION:

DATE APPLICATION NO. DATE KIND 1 PATENT NO.

PRIORITY APPLN. INFO.: JP 09230531

19960223 19960223 JP 1996-60376 JP 1996-60376 19970905 A2

AVAILABLE VIA OFFLINE PRINT STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -

6- membered = nonmetal atoms required to form a 5 or N-containing heterocycle which may be condensed; R1, R2 The title material contains a dye I (Z1, Z2

alkyl, alkenyl, aralkyl; L = linking group composed of 5, 7 or 9 methine groups linked by conjugated double bonds; a, b, c = 0 or 1; X = anion, when X is

(R3-10)H an anion containing M in III shown below, the compound III, IV or V is not necessary) or

alkyl, cycloalkyl, aryl, aralkyl, R3 and R4, R5 and R6, R7 and R8, R9 and R10, R4 and R5 or R8 and R9 may form a 5 or 6-membered ring), and ≥1 compound selected from LnlMml (III; L = ligand; M = Ni, Co,

Cu, Pt, Pd, Fe, Mn, or Zn; nl = 1-10; ml = 1 or 2), IV (Rll-14 = H or alkyl; X = anion), and V [Rl5 halo, CONHR22, SOZNHR22, NHSOZR22,

The R17 = H, alkyl, halo, NHCOR22, NHSO2R22, nonmetal atoms which link alkyl, alkoxy, OH, halo; R20, R21 = alkyl, aralkyl, atoms linking to form a heterocycle; n2 = 0-2]. NHCONHR22 (R22 = alkyl or aryl); R16, R17 = H each other to form an aromatic ring; R18, R19 = H,

dyes, which remains after heat-development, shows good lightfastness, and the material gives clear images material may be used in IR laser exposure. The Thus, a PET film was with high sharpness.

coated with an antihalation layer containing the dye and the decoloration-preventing agent on the back side, coated with a photosensitive emulsion layer and

and a protective layer successively on the front side to give a heat development photosensitive film 111364-54-6 ΙI

(heat-developable photosensitive material containing cyanine or squarylium IR-absorbing dye and RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

decoloration-preventing agent)

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphen yl]imino]-4-methyl-6-oxo-1,

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)

COPYRIGHT 2006 ACS on STN CAPLUS 31 ANSWER 23 OF

1995:391383 CAPLUS <<LOGINID::20060824>> ACCESSION NUMBER:

123:97640 DOCUMENT NUMBER:

A study on the electrochemical behavior of imaging dye in color photography; oxidation and leuco dye formation mechanisms of four

currently used dyes

Miwa, Takuji; Ueno, Masahide; Takeda, Tsuyoshi . Remote Sensing and Image Research Center, Chiba University, Chiba, 263, Japan Nippon Shashin Gakkaishi (1994), 57(5), 323-32 AUTHOR(S): CORPORATE SOURCE:

CODEN: NSGKAP; ISSN: 0369-5662

Journal DOCUMENT TYPE:

SOURCE:

Japanese LANGUAGE:

The electrochem. behavior of four imaging dyes with azomethine group developed recently and used in current color photog. materials is investigated in

acetonitrile and this including methanol as proton donor by cyclic voltammetry and rotating disk voltammetry. Two anodic waves are observed; the first wave

is quasi-reversible wave of the first step and the second is almost irreversible or poor reversible wave of The behavior of oxidation does

In acetonitrile, almost irreversible or poor reversible reduction wave is observed In addition to this wave, oxidation not change basically by addition of methanol.

wave of leuco dye is also observed weakly. It is estimated that in this case the leuco dye is produced by reaction of anion radical of the dye with water

By addition of methanol, the reduction wave existed as impurity. -- and correspondingly becomes broader and irreversible, and correspondingly This is confirmed by the following fact. existed as impurity.

oxidation wave of leuco dye becomes stronger. For following. An anion radical of the dye is produced by

The neutral radical is one electron reduction and changes to neutral radical through reaction with proton. also reduced to an anion. Then the anion reacts

with proton to produce leuco dye. In other words, it is estimated that the formation mechanism of leuco dye is ECEC type two electron process. IT 111364-54-6

RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses) (electrochem. behavior of photog. dyes with azomethine group)

111364-54-6

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphen yl]imino]-4-methyl-6-oxo-1,4

(CA INDEX NAME) cyclohexadien-1-y1]- (9CI)

Manufacture of azomethine and indoaniline dyes Ishige, Osamu; Masukawa, Toyoaki; Uchida, Taku; Nakayama, Noritaka Konica Co., Japan Jpn. Kokai Tokkyo Koho, 5 pp. CODEN: JKXXAF CAPLUS COPYRIGHT 2006 ACS on STN 1992:216347 CAPLUS <<LOGINID::20060824>> 116:216347 ANSWER 24 OF 31 INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE: ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CODEN: JKJ DOCUMENT TYPE: Patent LANGUAGE: Japanese

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

JP 03275767 A2 19911206 JP 1990-74973 19900325 JP 2895152 B2 19990524 JP 1990-74973 19900325 (ITY APPLN. INFO.: 19900325	PATENT NO.	KIND	KIND DATE	APPLICATION NO.	DATE
B2 19990524 JP 1990-74973	JP 03275767	A2	19911206	JP 1990-74973	19900325
	JP 2895152 PRIORITY APPLN. INFO.:	B2	19990524	JP 1990-74973	19900325

AB The dyes (e.g., I) are manufactured by anodic oxidation of p-phenylenediamine, aminophenol, or their derivs. in the presence of a coupler and a base. Thus, electrolysis of a DMF solution of II 1.84, III 2.62, Et3N 2.5, and Et4NBr 0.5 g with a Pt anode and a Pt cathode gave 2.6 g I with Amax 664 nm (MeOH). IT 111364-54-6P

RL: IMF (Industrial manufacture); PREP (Preparation)

(cyan dye, preparation of, anodic oxidation and coupling of phenylenediamine derivative in)

111364-54-6

RN 111364-54-6 CAPLUS CN Butanamide, 2-[2,4-bis(1,1-dimethylpropyl)] + [5-chloro-3-[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphen yl]imino]-4-methyl-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-y1]- (9CI)

COPYRIGHT 2006 ACS on STN CAPLUS 31 ANSWER 25 OF ACCESSION NUMBER:

1992:117250 CAPLUS <<LOGINID::20060824>>

116:117250

DOCUMENT NUMBER:

INVENTOR(S):

SOURCE:

Photoresist dichromate composition containing gelatin coated particles

Bagchi, Pranab; Reithel, Raymond F.; Chen, Tsang J.; Evans, Steven Eastman Kodak Co., USA PATENT ASSIGNEE(S):

U.S., 25 pp.

CODEN: USXXAM

Patent DOCUMENT TYPE:

English FAMILY ACC. NUM. COUNT: LANGUAGE:

PATENT INFORMATION:

ы	
DATE	
APPLICATION NO.	
DATE	
KIND	
PATENT NO.	

US 1990-495871 US 1990-495871 19911008 Ø PRIORITY APPLN. INFO.: us 5055379

(a) dye-loaded or dye-precursor-loaded A neg.-working photoresist composition comprises a mixture of

19900319 19900319

The composition is polymeric particles individually covered with a layer of gelatin that is covalently bonded thereto, and (b) a radiation-sensitive dichromate. useful in the preparation of continuous tone dyed imaging

elements such as color filter arrays for use in solid state color image sensing devices

RL: USES (Uses) 129578-41-2 ΙŢ

(polymer loaded with, for photoresist)

CAPLUS 129578-41-2

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-3-[[4-(diethylamino)-2-methylphenyl]imino]-4-methyl-6-oxo-1,4-c yclohexadien-1-yl]- (9CI)
(CA INDEX NAME) Butanamide,

COPYRIGHT 2006 ACS on STN CAPLUS ANSWER 26 OF 31 ACCESSION NUMBER:

1990:542375 CAPLUS << LOGINID::20060824>> DOCUMENT NUMBER:

113:142375

Photoimaging process

Yabuki, Yoshiharu PATENT ASSIGNEE(S):

INVENTOR(S):

TITLE:

SOURCE:

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

Patent DOCUMENT TYPE:

Japanese LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

DATE	111111
APPLICATION NO.	
DATE	
KIND	1
PATENT NO.	

19880812 19880812 JP 1988-201771 JP 1988-201771 19900221 **A**2 PRIORITY APPLN. INFO.: JP 02051157

metal compound (I) or a compound (II) capable of releasing a base upon reacting with the metal ion present Photoimaging is effected by using a photosensitive material containing Ag halide, a reducing agent, polymerizable compound, a dye, and water insol. basic

raising the pH via the reaction between I and II in the presence of water and the compound selected from I in I, imagewise exposing, initiating development by or II not present in the photosensitive material,

immobilizing the dye by polymerization of the polymerizable compound; and pressure transferring the dye present in the unpolymd. areas onto a receptor sheet, the

solubility of the dye in 1N NaOH being <0.1 g/100 mL at 25° ΙŢ

129578-41-2

RL: USES (Uses)

(dye, photoimaging process using) 129578-41-2 CAPLUS

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-3-[[4-(diethylamino)-2-methylphenyl]imino]-4-methyl-6-oxo-1,4-c yclohexadien-1-yl]- (9CI)

COPYRIGHT 2006 ACS on STN CAPLUS 31 ANSWER 27 OF ACCESSION NUMBER:

1989:125234 CAPLUS <<LOGINID::20060824>>

110:125234 DOCUMENT NUMBER:

Silver halide color photographic material with improved graininess

Michigami, Kenji; Iwamuro, Masao INVENTOR(S):

PATENT ASSIGNEE(S):

Konica Co., Japan Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

Patent DOCUMENT TYPE:

SOURCE:

TITLE:

Japanese LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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DATE	1 1 1 1 1 1	0000
APPLICATION NO.		
DATE	1 1 1	
KIND	1 1 1	•
PATENT NO.		

19870128 19870128 JP 1987-17769 JP 1987-17769 19961106 19880801 A2 B2 PRIORITY APPLN. INFO.: JP 63186241 JP 2550334

In the title photog. material which comprises ≥2 Ag halide emulsion layers having the same color but different sensitivities, and in which an

adjacent Ag halide emulsion layer near the support contains a diffusive DIR (development inhibitor releaser), a nonphotosensitive interlayer is placed

between the above adjacent Ag halide emulsion layers and the interlayer contains a dye having the same spectrum absorption range of the above emulsion

119513-38-1 layers. H

RL: USES (Uses)

(nonphotosensitive interlayer containing, photog. material using)

119513-38-1 CAPLUS RN

 $2-[2,4-bis(1,1-dimethy]propy]) \\ -N-[5-chloro-3-[[4-[ethy](2-hydroxyethy])] \\ -N-[5-chloro-3-[4-[ethy](2-hydroxyethy])] \\ -N-[5-chloro-3-[4-[ethy](2-[ethy](2-[ethy](2-[ethy](2-[ethy](2-[ethy](2-[e$ (CA INDEX NAME) Butanamide, yl]- (9CI)

1989:31446 CAPLUS <<LOGINID::20060824>> COPYRIGHT 2006 ACS on STN 110:31446 CAPLUS ANSWER 28 OF 31 ACCESSION NUMBER: DOCUMENT NUMBER:

Color photographic seal print having high quality and durability

INVENTOR(S):

SOURCE:

Shiba, Keisuke; Sakanoe, Seiki Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 29 pp. PATENT ASSIGNEE(S):

CODEN: JKXXAF Patent

Japanese DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. JP 1986-251481 JP 1986-251481 19880509 19970813 DATE KIND A2 B2 PRIORITY APPLN. INFO.: JP 63104050 JP 2639425 PATENT NO.

19861022

DATE

19861022

In a seal print (sic) comprising an imagewise printed color photog. paper (50-200 µm thick) having an AB

adhesive layer on its reverse side, the photog. paper has cyan images of dye I or II [R1, R4, R5 = aliphatic, aromatic, heterocyclyl, aromatic amino, heterocyclic amino; R2 = aliphatic; R3, R6 = H, halo, aliphatic,

acylamino; R2 and R3, and R5 and R6 may form 5-7 membered ring together; and CD = moiety of an oxidized aromatic primary amine developing agent], magenta images of dyes III or IV [R7, R6 = Ph; R9 = H, substituent; Za, Zb = CH, CR10, N; and R10 substituent], and a yellow image of dyes V $\{Q = P, P\}$ aliphatic oxy,

CD is represented by VI (R11, R12 = alkyl; and R13 = H, substituent) N-phenylcarbamoyl].

118150-18-8 II

RL: USES (Uses)

(cyan dye, color seal prints with images from) 150-18-8 CAPLUS

118150-18-8 S S

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-4-ethyl-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-me thylphenyl]imino]-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-y1]- (9CI)

$$Me-S-NH-CH2-CH2-N$$

$$Me-S-NH-CH2-CH2-N$$

$$Me-C-Et$$

$$Me-C-Et$$

$$Me-C-Et$$

$$Me$$

$$Me-C-Et$$

1988:464186 CAPLUS << LOGINID::20060824>> COPYRIGHT 2006 ACS on STN CAPLUS 31 ANSWER 29 OF ACCESSION NUMBER:

109:64186

DOCUMENT NUMBER:

Silver halide photographic material with high covering power and neutral tone Iwasaki, Nobuyuki; Ono, Shigeru; Miyasaka, Nobuaki; Adachi, Keiichi; Yamaguchi, Jiro;

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 20 pp. PATENT ASSIGNEE(S):

Kamiyama, Yoichiro

INVENTOR(S):

CODEN: JKXXAF

Patent

Japanese FAMILY ACC. NUM. COUNT: LANGUAGE:

DOCUMENT TYPE:

SOURCE:

PATENT INFORMATION:

APPLICATION NO. JP 1986-118850 JP 1986-118850 19871201 19950823 DATE KIND A2 B4 PRIORITY APPLN. INFO.: JP 62276539 JP 07078607 PATENT NO.

19860523

DATE

19860523

AVAILABLE VIA OFFLINE PRINT * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - In a photog. material having ≥1 supported Ag halide emulsion layer, (1) the covering power of the emulsion

layer is ≥6.0, and (2) a dye with a peak absorption between 520 and 560 nm and another dye with a peak between 570 and 600 nm are incorporated together in the emulsion layer and/or another

It is layer in such a concentration that the optical d. due to the dyes after processing is <0.03. relatively low cost sensitized material, provides an Thus, an x-ray film, ΙI image with high covering power and good neutral tone, and is suitable for radiog. use. prepared from a tabular grain emulsion

[Ag(Br,I), 2.0 µm in diameter and aspect ratio of 16], the dye I (peak absorption 545 nm), and the dye (peak absorption 62 nm), showed excellent

characteristics. 111364-54-6

ΙŢ

RL: TEM (Technical or engineered material use); USES (Uses)

(photog. material containing, with high covering power and neutral tone)

111364-54-6 CAPLUS

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphen

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI) yl]imino]-4-methyl-6-oxo-1,4-

$$Me-S-NH-CH2-CH2-N$$

$$Me-S-NH-CH2-CH2-N$$

$$Me-C-Et$$

$$Me-C-Et$$

$$Me-C-Et$$

$$Me$$

$$Me-C-Et$$

COPYRIGHT 2006 ACS on STN CAPLUS 31 ANSWER 30 OF

CAPLUS <<LOGINID::20060824>> 1988:122021 ACCESSION NUMBER:

108:122021 DOCUMENT NUMBER:

Photoimaging process involving immobilization of dyes by polymerization

Nakamura, Taku; Takeda, Takashi

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 17 pp.

PATENT ASSIGNEE(S):

SOURCE:

INVENTOR(S):

CODEN: JKXXAF

Japanese

Patent DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT:

LANGUAGE:

PATENT INFORMATION:

19860213 DATE APPLICATION NO. JP 1986-29987 19940316 19870815 DATE KIND A2 B4 JP 62187346 JP 06019574 PATENT NO.

19860213 JP 1986-29987 PRIORITY APPLN. INFO.:

The title imaging process involves (1) imagewise exposure of a photosensitive material containing Ag halides, a reducing agent, a polymerizable compound, and

dye or pigment to form a Ag halide latent image, (2) development during or after the exposure to polymerize the monomer in the latent image area and to

immobilize the dye or the pigment, and (3) pressing the developed material onto a receptor to transfer the mobile dye on the pigment in the unhardened

The development is preferably effected by heating. areas to form a colored image on the receptor.

111364-54-6 LI

RL: USES (Uses)

(photothermog. photosensitive materials containing) 111364-54-6 CAPLUS

Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphen yl]imino]-4-methyl-6-oxo-1,4-

(CA INDEX NAME) cyclohexadien-1-yl]- (9CI)

COPYRIGHT 2006 ACS on STN CAPLUS 31 ANSWER 31 OF

CAPLUS <<LOGINID::20060824>> 1987:625775

Study on fading of color photographic images (III). Polarographic analysis of reductive 107:225775 ACCESSION NUMBER: DOCUMENT NUMBER:

N-[2'-methy1-4'-(N-ethy1-N- β -methy1sulfonamidoethy1)-aminopheny1]-1,4-quinonemonoimine fading reaction of acylaminated derivatives of

Wang, Jindi; Miyagawa, Toshio; Shirai, Yasuo; Shimizu, Youko East China Inst. Chem. Technol., Shanghai, Peop. Rep. China Nippon Shashin Gakkaishi (1987), 50(3), 183-7 CORPORATE SOURCE:

CODEN: NSGKAP; ISSN: 0369-5662

Journal DOCUMENT TYPE:

AUTHOR(S):

SOURCE:

LANGUAGE

Japanese

The effect was studied of substituent groups of 2-acylaminophenol couplers on the dark stability of 3 kinds of quinonemonoimine dyes by polarog. anal.

Polarog. The dyes were prepared by oxidative coupling of CD-3 developing agent with the 2-acylaminophenols. detns. of the dyes were carried out in a mixture

of EtOH and Britton-Robinson buffers (1.5:1 in volume ratio) as the supporting electrolyte at 20° Exptl. data bubbled with N gas.

Half-wave potential values of showed that 2 protons took part in the fading reaction of these dyes. Half-wave pot correlated with their stability. The effect of substituent groups of these dyes on the half-wave potentials is discussed. dyes

RL: USES (Uses) II

(fading of color photog. images from, polarog. anal. of)

C &

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-chloro-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphen]yl]imino]-4-methyl-6-oxo-1,4-Butanamide,

(CA INDEX NAME)

cyclohexadien-1-yl]- (9CI)

BRS	S22	2318 (azamethine or azomethine) and (bead or particle) USPAT	8/22/2006 16:49
BRS	S23	798 (azamethine or azomethine) and (bead) USPAT	8/23/2006 16:47
BRS	S15	274 azamethine or azomethine and S14 USPAT	8/22/2006 15:34
BRS	S17	87 gelatin with (bead or microsphere) same substrate USPAT	8/22/2006 16:09
BRS	S21	28 gelatin with (particle) same substrate and chromophore USPAT	8/22/2006 16:50
BRS	S24	14 (gelatin with (particle) same substrate and chromophore) and array USPAT	8/22/2006 16:51
BRS	S14	7 US-5412087-\$.DID. OR US-5489678-\$.DID. OR US-5981180-\$.DID. OR U USPAT	8/22/2006 16:07
BRS	S20	5 gelatin with (bead or microsphere) same substrate and chromophore USPAT	8/22/2006 16:11
BRS	S18	3 gelatin with (bead or microsphere) same substrate same dye USPAT	8/22/2006 16:09
BRS	S25	1 4880432.pn. USPAT	8/24/2006 10:57
BRS	S16	0 (azamethine or azomethine) and S14 USPAT	8/22/2006 16:49
BRS	S19	0 gelatin with (bead or microsphere) same substrate same chromophore USPAT	8/22/2006 16:09
BRS	S7	8902 azamethine or azomethine US-PGPUB; USPAT; USOCR; EPO; JPO; DERWEN	8/22/2006 14:53
BRS	S8	2863 gelatin and S7 US-PGPUB; USPAT; USOCR; EPO; JPO; DERWEN	F 8/22/2006 14:53
BRS	S9	207 (агтву or microarray or chip or biochip) and S8 US-PGPUB; USPAT; USOCR; EPO; JPO; DERWEN	8/22/2006 14:54
BRS	S10	169 (array or microarray or biochip) and S8 US-PGPUB; USPAT; USOCR; EPO; JPO; DERWEN	8/22/2006 14:55
BRS	S12	169 (array) and S8 US-PGPUB; USPAT; USOCR; EPO; JPO; DERWEN	8/22/2006 14:55
BRS	S13	12 US-5412087-\$.DID. OR US-5489678-\$.DID. OR US-5981180-\$.DID. OR LUS-PGPUB; USPAT; USOCR; EPO; JPO; DERWEN	8/22/2006 15:33
BRS	S2	6 512226.pn. US-PGPUB; USPAT; USOCR; EPO; JPO; DERWEN	8/22/2006 13:51
BRS	S3	6 5122611 US-PGPUB; USPAT; USOCR; EPO; JPO; DERWEN	8/22/2006 13:54
BRS	S4	4 5260257.pn. US-PGPUB; USPAT; USOCR; EPO; JPO; DERWEN	8/22/2006 14:10
BRS	S1	3 20030096253 US-PGPUB; USPAT; USOCR; EPO; JPO; DERWEN	8/22/2006 13:51
BRS	S6	3 6605403.pn. US-PGPUB; USPAT; USOCR; EPO; JPO; DERWEN	8/22/2006 15:33
BRS	S5	2 GENJIMA.in. and MATSUURA.in. and MOCHIZUKI.in. US-PGPUB; USPAT; USOCR; EPO; JPO; DERWEN	8/22/2006 14:13
BRS	S11	2 (microarray or biochip) and S8 US-PGPUB; USPAT; USOCR; EPO; JPO; DERWEN	8/22/2006 14:55